

Figure 1

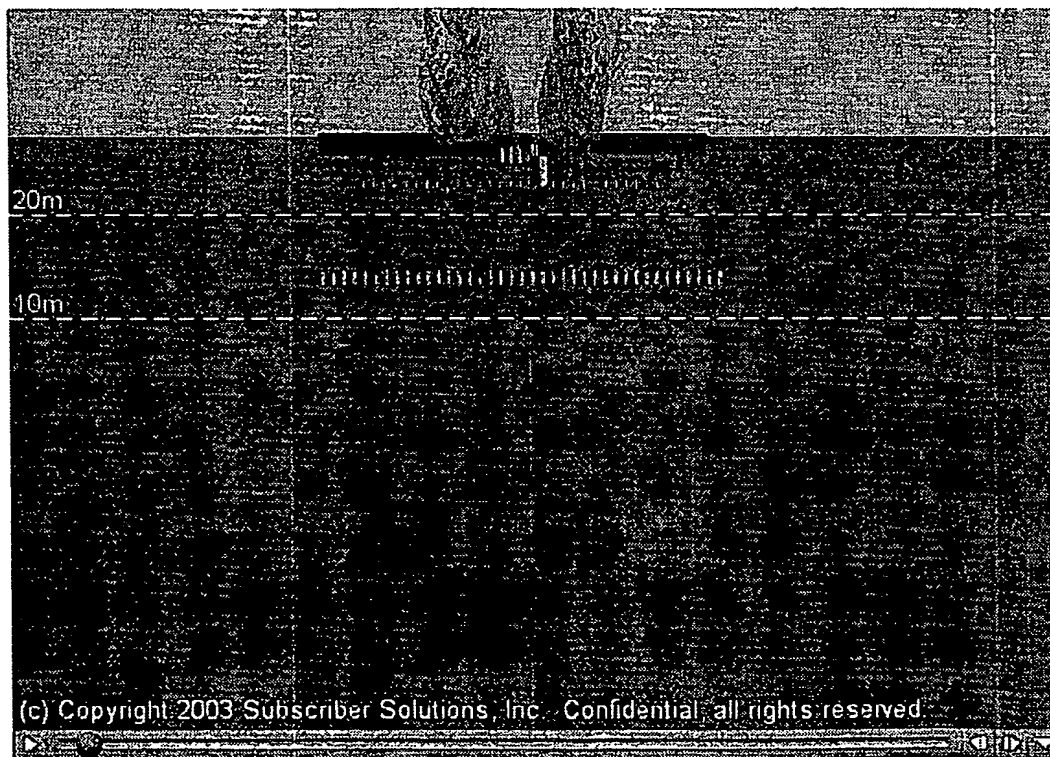


Figure 2

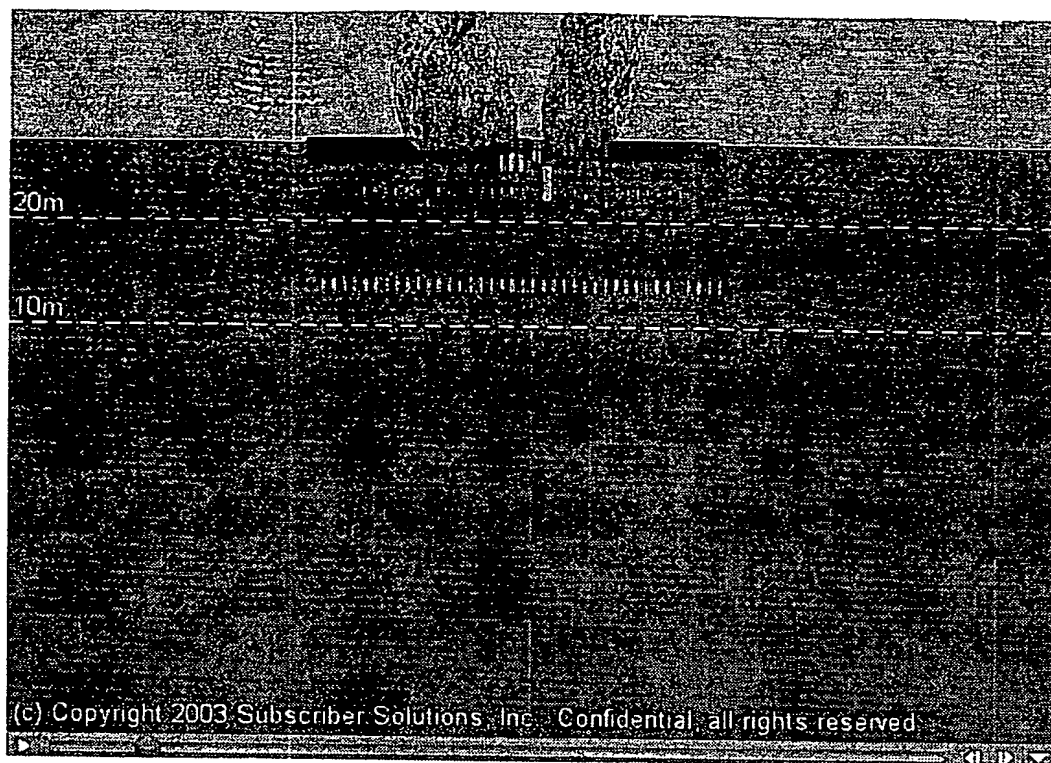


Figure 3

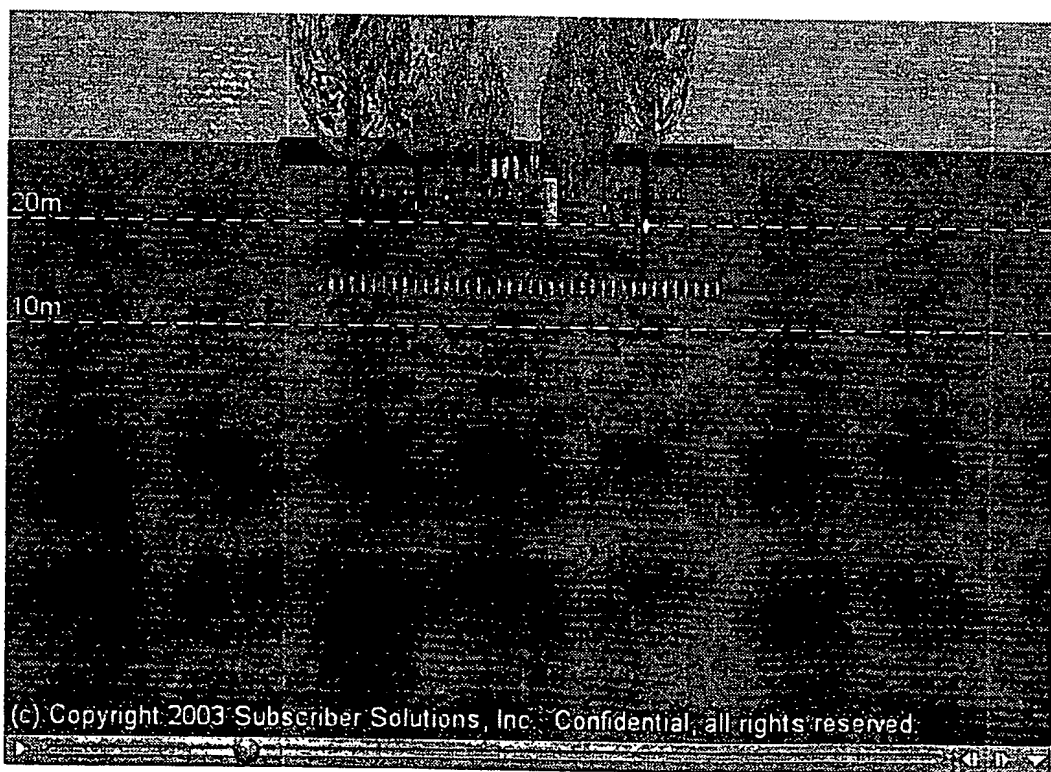


Figure 4

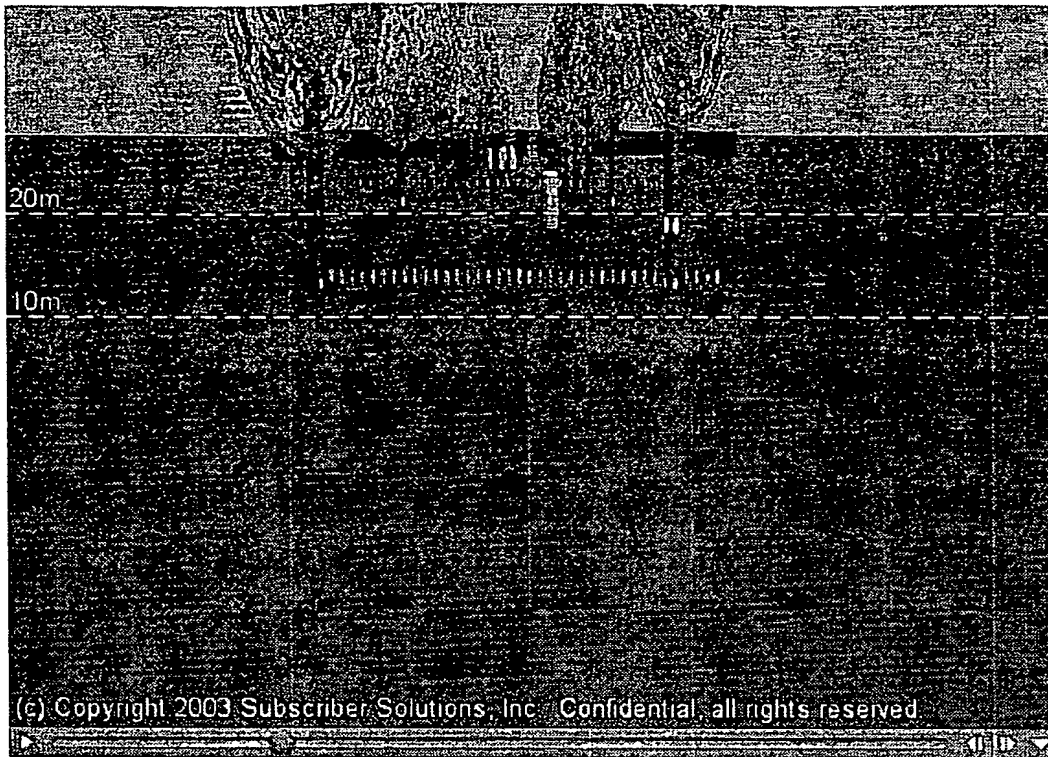


Figure 5



Figure 6



Figure 7

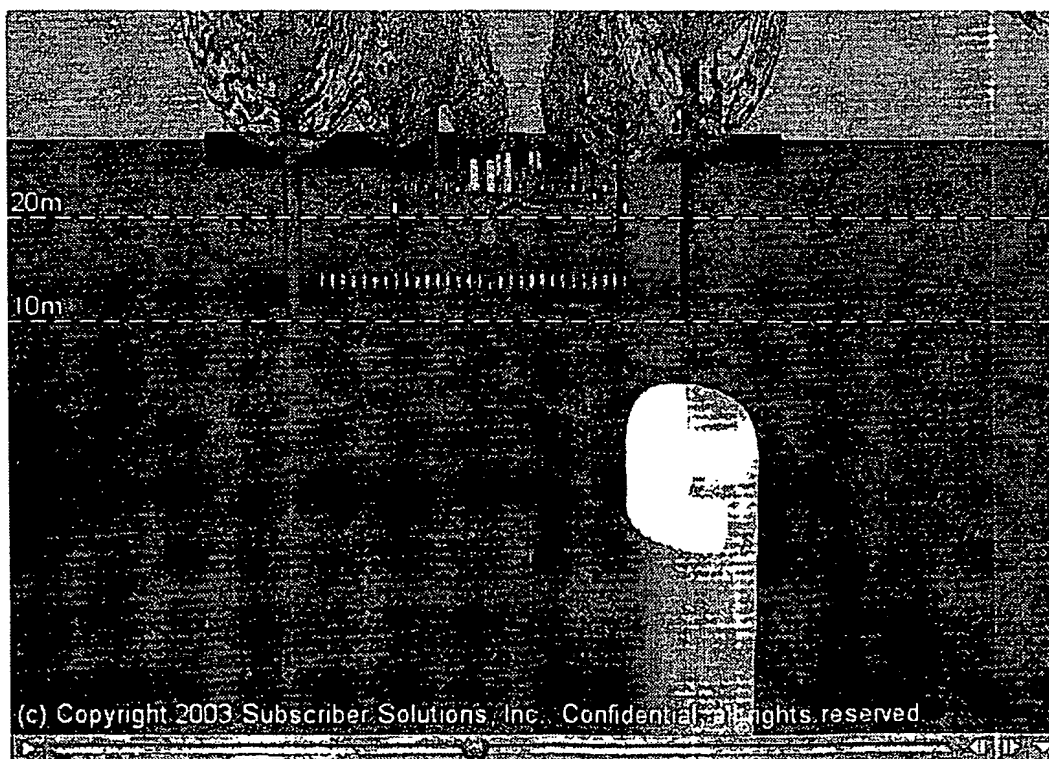


Figure 8

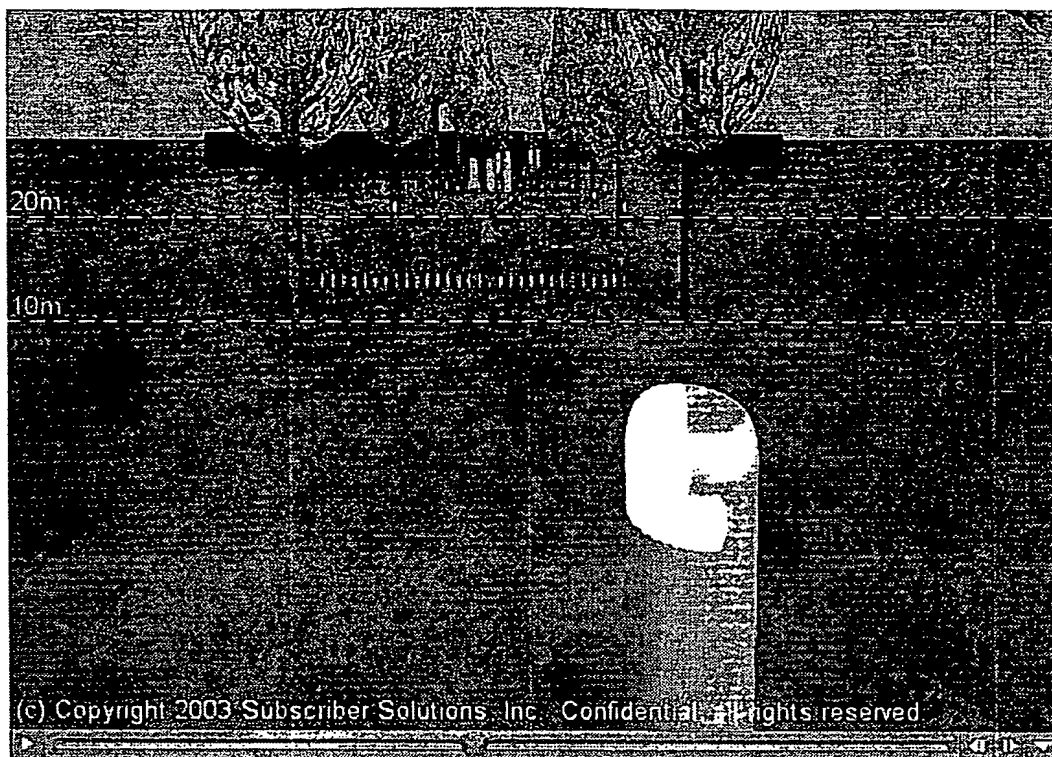


Figure 9

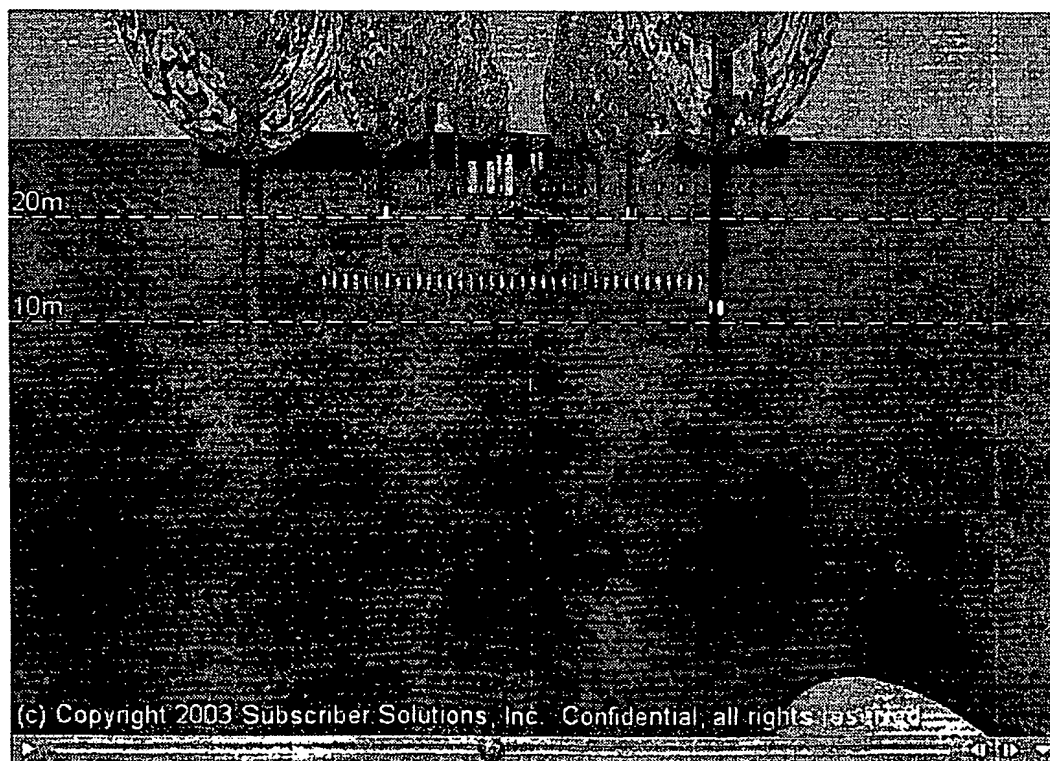


Figure 10



Figure 11

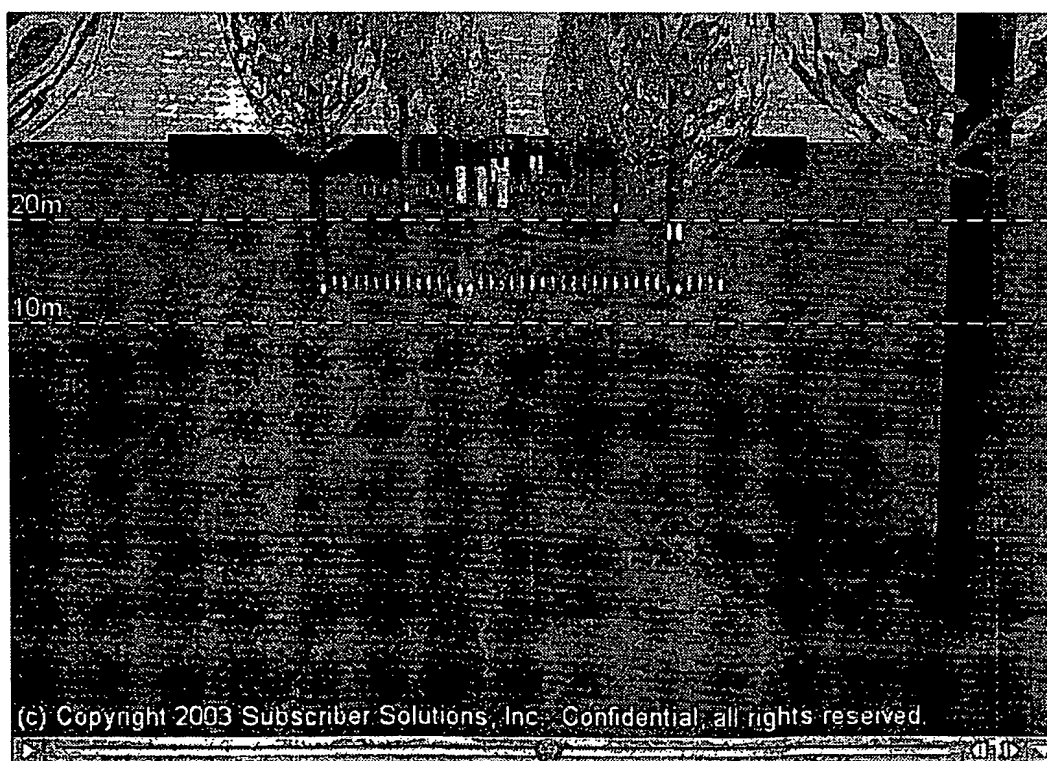


Figure 12

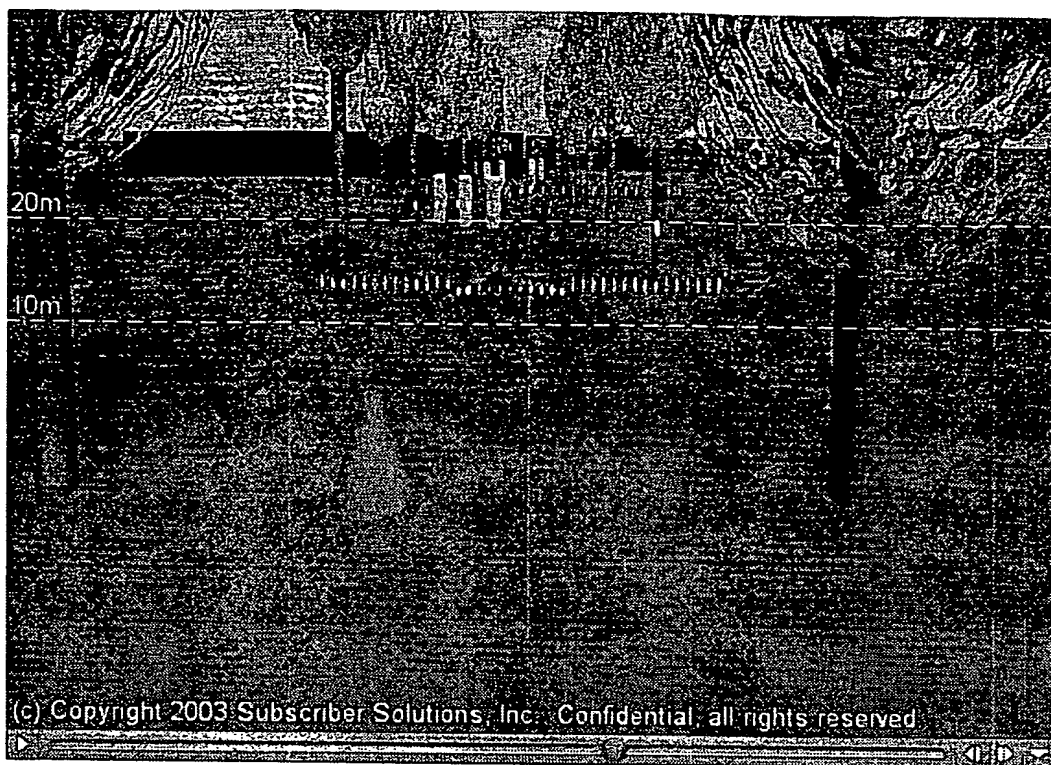


Figure 13

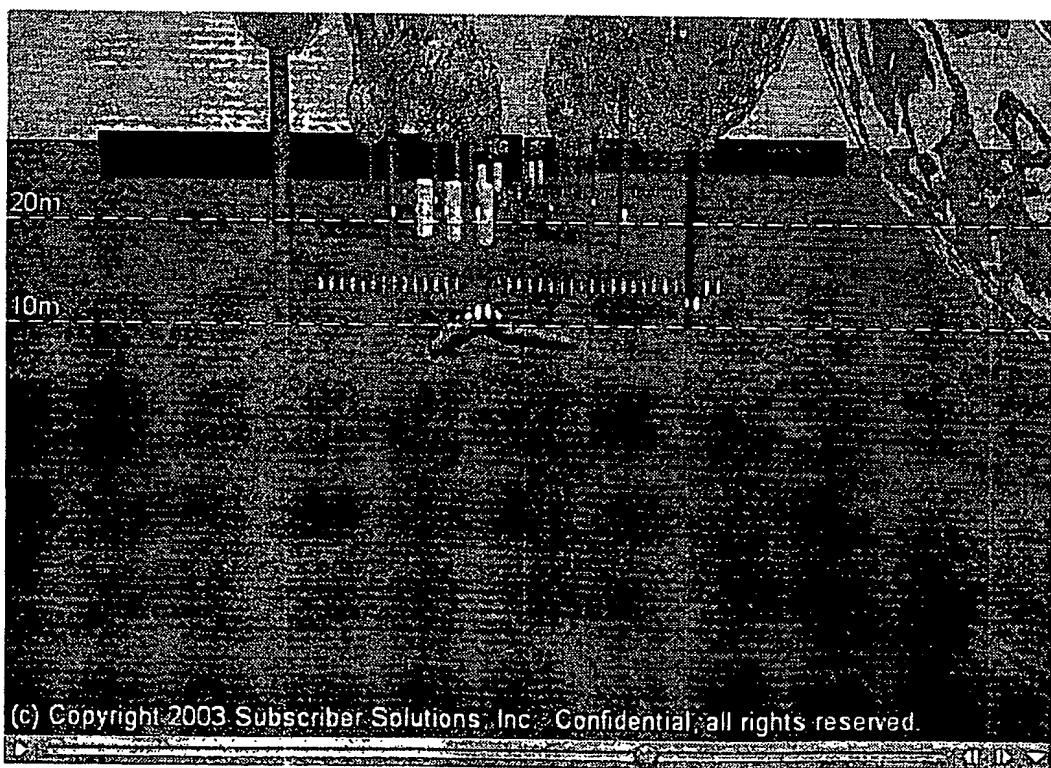


Figure 14

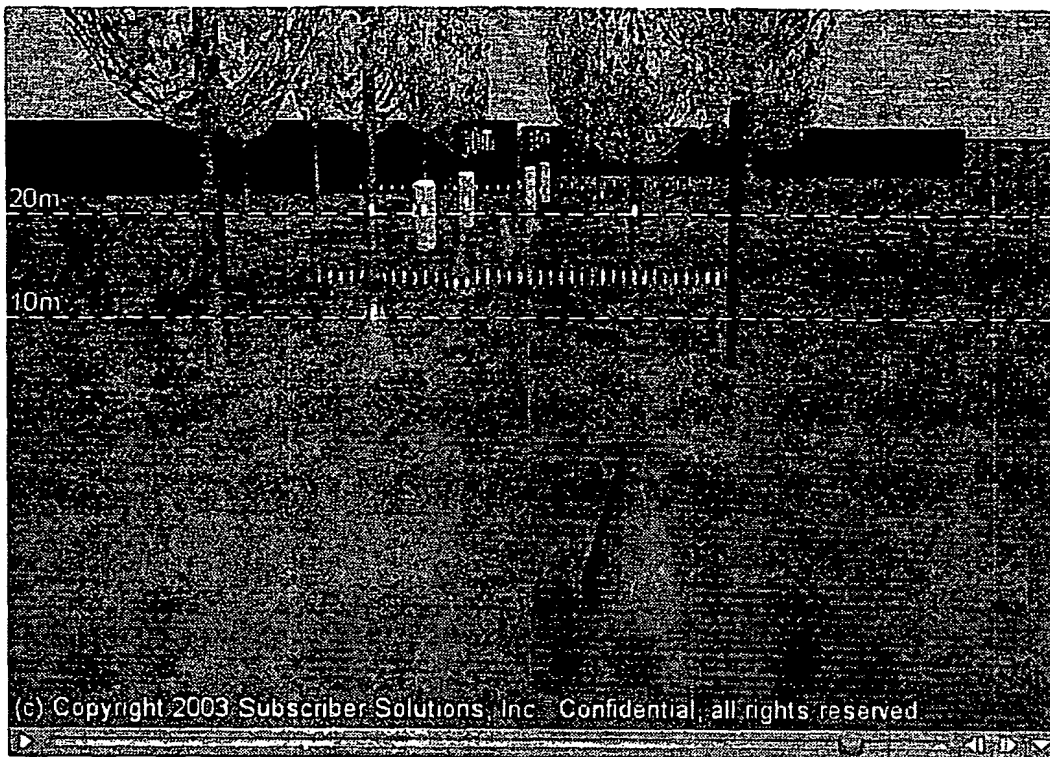


Figure 17

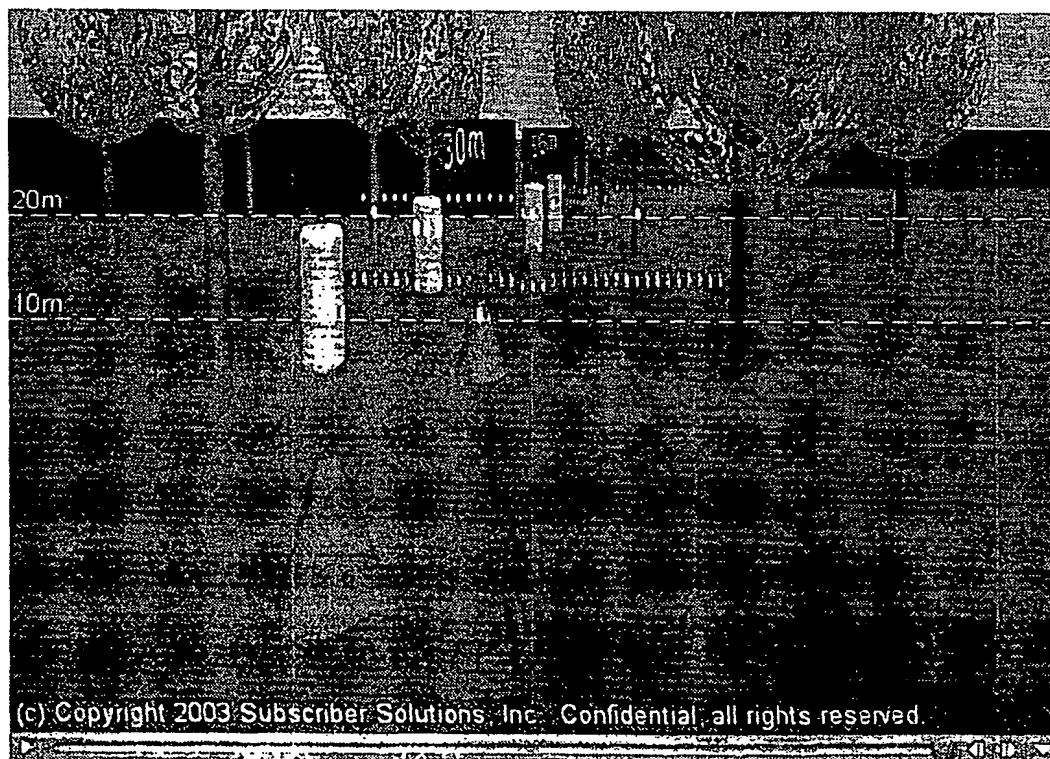


Figure 18

Ranger illumination patterns

Infrared laser diodes with beamsplitting grating optics are used to create several fields of spots with different powers and elevations, for triangulation ranging by a stereo pair of infrared CCD cameras. Roughly 256 beams are deployed, using 16 laser diodes. Note: this is a hypothetical plan pending detailed design and review.

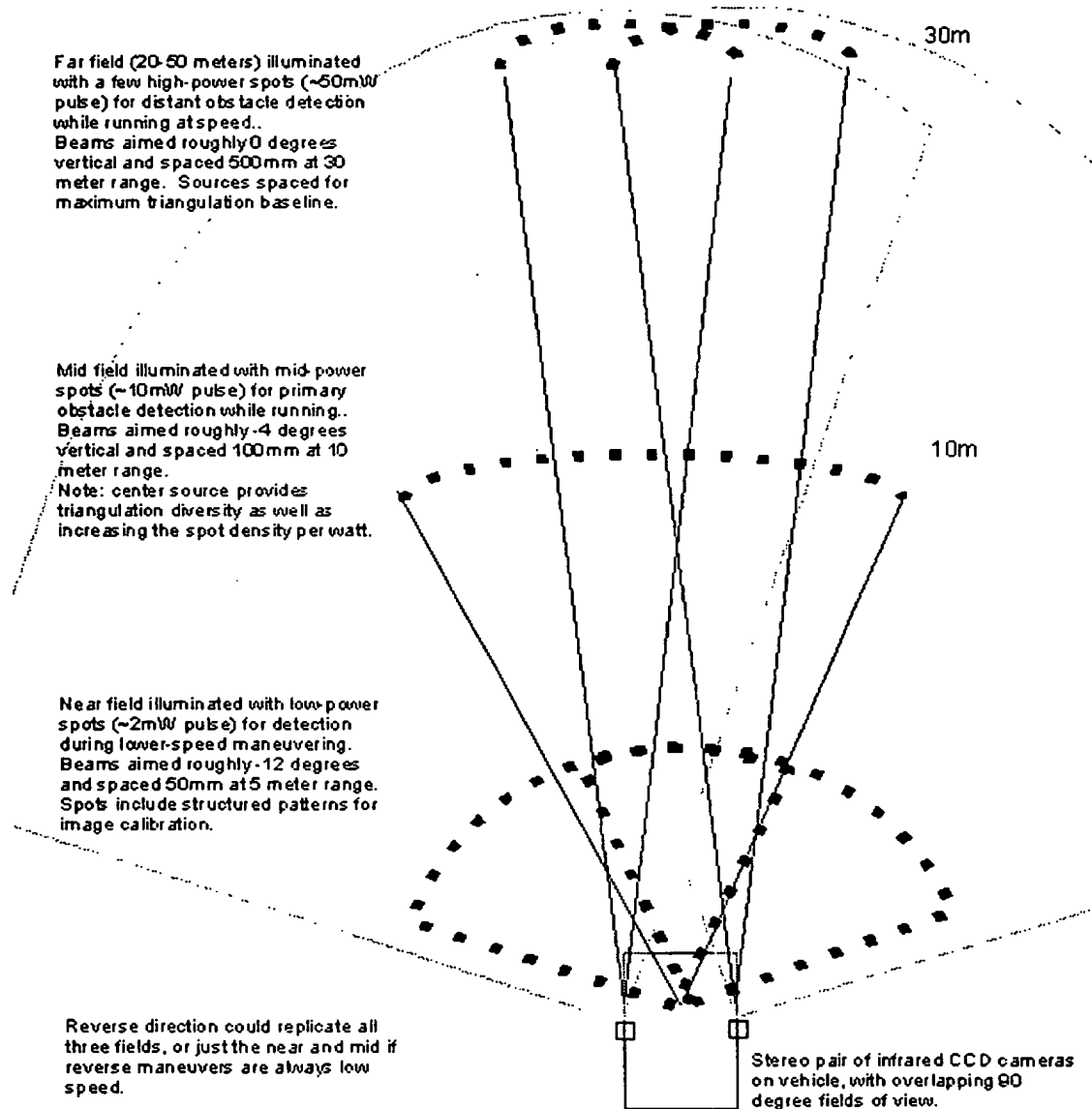


Figure 19

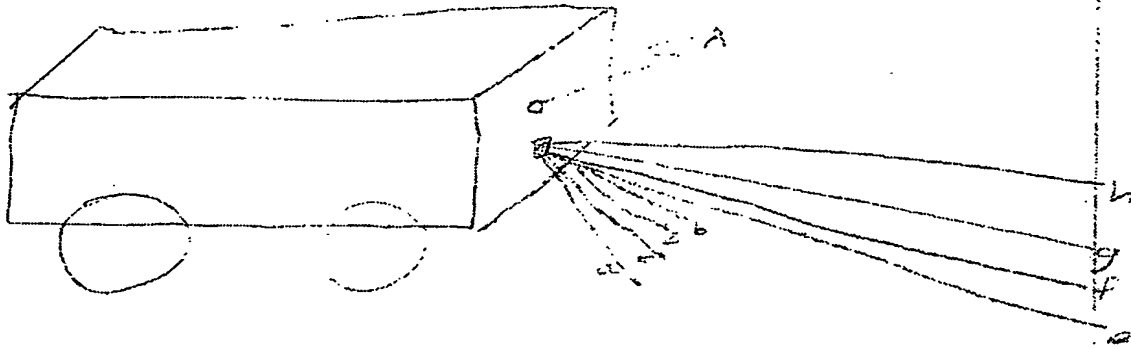


Figure 20

Figure 20

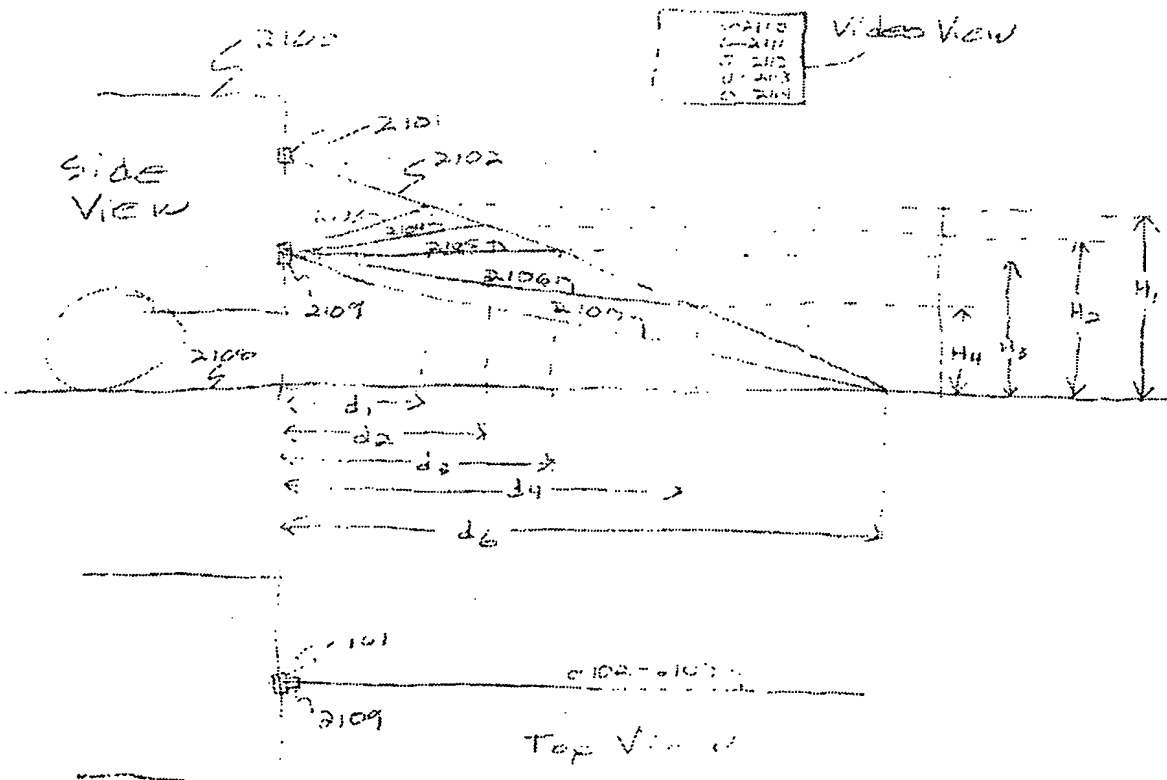


Fig 21

